App F IX-4

Previous References

1954 (CM)

File No 96-54

Serial Nos 1, 2

Later References

MYSORE GOVERNMENT SECRETARIAT

Serial Nos 2

P-87
E

Part B for October 54

SUBJECT

Constitution of a Committee by Bangalore City Corporation to Examine and Report on Water Supply, Drainage & Slum Clearance Schemes and to suggest Ways improvement etc

WD 04867—GPB—9 000—11 1 54

L 8733-71 CM 96-54-2 dt 4/5-10 54

To The Commrs CCB
" Commrs ABG
" Chairman CIT Bd Bdue
" Controller FAD
" Architect CCB

Mysore Government Secretariat | 4465/on File No of 1954-55 | [App F III 2

Serial No	
	To (1) The Commissioner C C B Letter no D-1 524 58 dated 22-9-54 Requesting Government to constitute a Committee to consider the draft memorandum to be submitted to the Planning Commission for obtaining financial aid from Central Government in respect of Water supply, Drainage Slum Clearance, housing
	Orders of the Secretary L S G -
1	The Committee Govt Purposes may be constituted to look into and give their report in 10 days (Sd) G V K 24-9-54
2)	(Sd) J.C. Minister L S G 28-9-54
3	Issue orders at once (Sd) G V K 30 9 54 (Sd) V H — 1 10 54
4	Draft G.O as put up H 1/10/54 4/10 5) Pl put up a typed draft

Note—Contn Sheet

Constitution of a Committee by the Corporation, to Consider Water Supply & Drainage & Sanitary Questions

File No 44657/md 61 195

Mysore Government Secretariat

Serial No

(b) Issue

Date

To

The Commissioner, CCP

" Executive Engg

" Chairman, CMC & Bldg

" Contractor, A.D.

" Architect, CCP

L 8733-7/CM 96-54-2 dt 4/5-10-54

Appointment to Committee

B 21/X/54

CORPORATION OF ~~THE CITY~~ OF BANGALORE.

(1)

No A1/54-55 Enc One Note, one resolution and one Printed scheme

MYSORE GOVERNMENT SECT. No 4465 24 SEP 1954 MUNICIPAL BRANCH

CORPORATION OFFICES,
BANGALORE
Dated 22nd Septr 1954

FROM Copy of the draft scheme
THE COMMISSIONER,
CORPORATION OF THE CITY OF BANGALORE,
BANGALORE

25 SEP 1954 No 2755

C M 96-54-1

To
The Secretary to the Government of Mysore,
L S G and Planning Departments,
Bangalore

SIR

Subject MEMORANDUM SUBMITTED TO PLANNING COMMISSION UNDERGROUND DRAINAGE - WATER SUPPLY AND SLUM CLEARANCE

With reference to your letter No L 5657 dated 1-1-1954 for arranging to send detailed estimates and plans etc, I write to inform you, that the Corporation Engineer originally estimated the cost of the above schemes roughly at Rs.5,01,58,882 and the Standing Committee (Taxation & Finance) before whom the matter was placed for consideration resolved to recommend the same for approval.

The Committee proposes may be Constituted to look into and furnish report in today

In the above schemes, the Corporation Engineer had included the programme for housing the Industrial labourers residing in the slum areas numbering 3157 families at a cost of Rs.102,28,680 But as this falls under the "Housing Scheme" sponsored by the Government of India and the entire cost is to be met out of the subsidy and loan from the Government of India, the Corporation Engineer omitted this item and prepared actual estimates to the tune of Rs.5,65,39,922 as detailed in the margin

1	Water Supply	Rs.	79,12,002
2	Underground drainage and sewage disposal	"	159,41,760
3	Slum improvements	"	111,86,160
4	Canalising seepage water	"	15,00,000
	Total	Rs.	565,39,922

This was subsequently placed before the Corporation at their special meeting held on 20-9-1954 for consideration and they resolved that the Government be requested to constitute a committee with Sri N S Hirannayya, Commissioner for Local Self Government and the Chairman of the Mysore Labour Housing Corporation, (2) Sri R Madhavan, Chairman, City

p t o

City Improvement Trust Board and (3) Sri K Henjerappa, Commissioner, Corporation of the City of Bangalore to examine the Commissioner's note dated 29-7-1954 (copy enclosed) with regard to obtaining the financial aid and to consider the draft memorandum under three different phase viz , (1) Water Supply, (2) Underground Drainage and Sewage Disposal and (3) Slum Improvement. A printed copy of the Draft scheme is also herewith enclosed for the information of the Government

I request that the Government may be pleased to constitute the above Committee at a very early date

Forwarded with compliments

Seetharam

(H S Seetharam,)
MAYOR

Yours faithfully,

K Henjerappa 22/9

(K Henjerappa,)
COMMISSIONER

TNL/-

(3)

Resolution passed at the Special Meeting of the Corporation or the City of Bangalore held on 20th September 1954

Sub Recommendation of the Standing Committee (Taxation and Finance) dated 5-8-1954 that the general principle with rough estimates in connection with the obtaining or financial aid from the State and Union Governments for the following important works to be taken up in stages as detailed in the Commissioner's note dated 29-7-1954 be accepted

(1) Water Supply	Rs.	79,12,002
(2) Under-ground drainage and sewage disposal	Rs.	2,14,33,000
(3) Slum Improvements	Rs.	1,11,85,200
(4) Industrial Housing Scheme for slum dwellers	Rs	1,02,28,680
Total	Rs.	5,07,58,882

and actual estimates since received

Sri V P Deenadayalu Naidu moved the following resolution -

"Resolved that the general principle in connection with the obtaining of financial aid from the State and Union Governments as Loan and Subsidy for the following works viz ,

(1) Water Supply
(2) Underground Drainage and Sewage Disposal,
(3) Slum Impr ovement

be accepted

Fur ther resolved that the Government be requested to constitute a Committee with Sri N S Hirannayya, Commissioner for Local Self-Government and Chairman of the Mysore Labour Housing Corporation (2) Sri R Madhavan, Chairman, City Improvement Trust Board and (3) Sri K Henjerappa, Commissioner, Corporation of the City of Bangalore to examine the Commissioner's Note dated 29-7-1954 with regard to obtaining the financial aid and to consider the draft memorandum under three different phase viz , (1) Water Supply (2) Underground Drainage and-Sewage Disposal and (3) Slum Improvement The Corporation Commissioner to be the Convener of the Committee

The above said Committee besides submitting a report after considering the draft memorandum and the Commissioner's note, be requested to give their opinion with respect to the administration of uniform distribution of water supply both in Civil Station and City Area and (2) mode of re-payment of the said loan

The Committee will also consult each Divisional Councillor or Councillors and aldermen and others whom the Committee thinks necessary "

Sri P S K Naidu seconded the resolution

Sri K S Kumaran moved the following amendment -

In place of the words "obtaining the financial aid and to consider the draft memorandum under three different phase" after the words "with regard to" insert "technical details or implementing the above scheme"

Sri P D Narayan seconded the amendment

Sri V P Deenadayalu Naidu accepted the amendment

p t o

The following amended resolution was then put to vote and passed unanimously

"Resolved that the general principle in connection with the obtaining of financial aid from the State and Union Governments as Loan and Subsidy for the following works viz ,

(1) Water Supply
(2) Underground Drainage & Sewage Disposal
(3) Slum Improvement

be accepted

Further resolved that the Government be requested to constitute a Committee with Sri N S Hirannayya, Commissioner for Local Self-Government and Chairman of the Mysore Labour Housing Corporation (2) Sri R Madhavan, Chairman, City Improvement Trust Board and (3) Sri K Henjerappa, Commissioner, Corporation of the City of Bangalore, to examine the Commissioner's note dated 29-7-1954 with regard to technical details of implementing the above scheme viz, (1) Water Supply (2) Underground Drainage and Sewage Disposal and (3) Slum Improvement
The Corporation Commissioner to be the Convener of the Committee

The above said Committee besides submitting a report after considering the draft memorandum and the Commissioner's Note, be requested to give their opinion with respect to the administration of uniform distribution of water supply both in Civil Station and City Area and (2) mode of repayment of the said loan

The Committee will also consult each Divisional Councillor or Councillors and aldermen and others whom the Committee thinks necessary

Sd Seetharam, H S
Mayor

"Copy"

Dr N S Hirannayya
Commissioner

TNL/-
2219

(5)

CORPORATION OF THE CITY OF BANGALORE

OFFICE OF THE COMMISSIONER,
CORPORATION OF BANGALORE,

No. Dated 28th July, 1954.

NOTE TO THE STANDING COMMITTEE (TAXATION & FINANCE)

The major problems that confront the Corporation requiring immediate solution, are (1) adequate Water Supply, (2) Comprehensive Underground Drainage Scheme, Sewage Disposal Scheme and (3) last but not least Slum Clearance Each in itself is a big one entailing an estimated cost of nearly a Crore of Rupees The scanty provision that we are making in the Budget of each year and even the proposals under the new loan scheme of Rs 10 lakhs do not even touch the fringe of the problem Unless Central and State Governments interest themselves in financing the Corporation both by subsidy and loan not one problem will be solved With this in view, the Mayor during his last visit to Delhi mooted out the matter with the Union Ministers after getting permission from the Chief Minister of Mysore He further pursued the matter by presenting a memorandum to the Deputy Chairman of the Planning Commission and the Minister for Planning and Works, when they visited Bangalore recently They gave a patient hearing and promised to lend their support provided the necessary estimates under each item are prepared and submitted to the Union Government through our Government, who have also now asked to forward the estimates

In persuance of this arrangement, estimates under each head have been prepared and put up with a detailed note It will be seen from the note, that we requireRs 5,07,60,888/- to complete the following works -

(1) Water Supply	Rs	79,12,002
(2) Underground Drainage and sewage disposal	Rs	2,14,33,000
(3) Slum Improvement	Rs	1,11,85,200
(4) Industrial Housing Scheme	Rs	1,02,28,680

As per the details in the estimates, the works will be

P t o

will be spread over as detailed below -

(1) Water Supply	I Year	Rs 34,56,380
	II Year	44,55,622
(2) (a) Underground Drainage	I Year	30,00,000
	II Year	39,33,600
	III Year	30,00,440.
(b) Sewage Disposal,	I Year	5,00,000
	II Year	40,00,000
	III Year	43,00,000.
	IV Year	12,00,000.
(3) Slum Clearance	I Year	21,42,900
	II Year	23,08,500.
	III Year.	20,95,200
	IV Year	23,31,900
	V Year	23,06,700.
(4) Industrial Housing Scheme	I Year	51,77,520
	II Year	50,51,160

Out of the above itesm, 50% of tho estimatcs relating to Industrial Housing Scheme may bc subsidised by the Government So also with regard to provision of underground sewers, a similar sum may be claimed from the Government, (chiefly Union Government) as subsidy as the Bangalore Development Committee have recommended that Bangalore being an important Military Station, it is but reasonable to expect the Government of India in the Defence Department to pay a substantial contribution in this grade In any case, we may have to take a loan of Rs 4,00,00,000/- We need not pay interest till all the works are completed i e , five years The payment of the principal with the usual interest will have to be paid within a period of forty years

In the usual course, we may have to pay Rs 10 lakhs towards principal and Rs 16 lakhs towards interest But as the principal will be dwindling year by year, the interest also will correspondingly be less Hence interest on an average of Rs 10lakhs is taken for purposes of payment In short, we have to make a provision of at least Rs 20 lakhs each year towards repayment of the loan as against Rs 5 lakhs which we are now providing, on an average each year for these items The Engineer is confident that the works may be completed within the period stipulated under each item with the aid of the Special Staff that will be recruited for

p t o

17

for the purpose Of course in the I Year, the work may be less vigorous ~~in~~ as materials will have to be obtained for the entire works Other details regarding the required staff, etc., will be worked out after the general principle is accepted by the Corporation and the Government.

The matter is placed before the Standing Committee (Taxation and Finance) at the first instance

(Sd) K HANJERAPPA,
29/7/54
COMMISSIONER

" C O P Y "

N S [illegible]
FOR COMMISSIONER,
CORPORATION OF BANGALORE
22/9

SVR/-

(4)

Mysore Government
xxxxxxxxxxxxxx/
Municipal Branch,
24 July 54

L. 36.57

The

L S.G. & Planning Departments

To

The Mayor,
Corporation of the City of Bangalore,
Bangalore.

Sir,

Subject - Memorandum submitted to Planning Commission
Under-ground Drainage, Water Supply and
Slum Clearance Works

I am directed to invite reference to your letter No A1-21/54-55 dated the 24th June 1954 on the above subject and to request you kindly to arrange to send detailed estimates and plans (in duplicate) for under-ground drainage scheme immediately The other two questions are being considered separately

2 A copy of letter No 1137/54-5 dated 21st June 1954 received from the Chairman, City Improvement Trust Board, Bangalore, who was requested to send detailed estimates, is enclosed herewith for information.

Yours faithfully,

(V Hanumanthappa)
Asst Secretary to Government,
L S G & Planning Departments.

"With reference to your letter No L 2338 dated 8th June 1954 regarding the above, I write to state that the drainage maps called for from the Corporation are not yet received and the Commissioner is being reminded in the matter

I wish however to point out in this connection that the preparation of a Comprehensive Scheme in the unsewered areas of the Corporation involves detailed and intensive surveys in those area and considering the magnitude and importance of the work, the appointment of a special staff for a specific period is necessary On receipt of the maps from the Corporation Commissioner, the details will be worked out and submitted to Government for sanction "

- Copy -

LNS 2 5/7.

Memorandum Indicating the Amenities to be provided in the City of Bangalore with the Aid of the Government of India

Brief History of the City of Bangalore

The Corporation of Bangalore was formed by the merger of the Municipalities of the City and the Civil and Military Station with effect from 8th December 1949 Prior to that date the City Municipality was administered by a Municipal Council constituted under the Mysore Laws of which the latest was enacted in 1933 The Municipal affairs of the Cantonment, which came to be known as the Civil and Military Station of Bangalore on its transfer to the jurisdiction of the Resident in 1881, was administered by the Municipal Commission under the control of the Resident under the provisions of what was known as the Bangalore Municipal Law 1897 The Two Municipalities which had thus been functioning separately under two different authorities were merged in December 1949 and the Corporation was established with an organisation (similar to the Municipal Corporations in larger Indian Cities) to administer the affairs of the combined Municipal Area

Growth of Population

The following figures indicate the area and population of the City and the Civil Station from 1901 to 1951 —

Area and Population figures

Year	City	Civil Station	Total
1901	69 447	89 529	1 58 976
1911	88 651	1 00 834	1 89 485
1921	1 18 556	1 18 940	2 37 496
1931	1 72 357	1 34 113	3 06 470
1941	2 48 331	1 58 426	4 06 757
1951	5 00 786	2 78 191	7 78 977

Area of the City & Civil Area { In 1901 — 22 26 square miles
In 1951 — 26 7 square miles

It will be seen that although there has been no material addition to the Municipal area its population has increased by 400% in the course of half a century During the decade 1941 1951 the population nearly doubled While during the same period the growth of population in urban areas in the whole of India was 54/ the phenomenal increase of population in Bangalore is due to various reasons As the administrative head quarters of the State and as a military centre of some importance the City has always attracted immigrants from the rural areas of the State as well as from places outside the State Latterly im migration into the City has been greatly stimulated by the loc ation of new institutions and large industrial concerns of national importance in and near Bangalore The Hindustan Aircraft Factory Ltd and the Indian Telephone Industries Ltd , were established some years ago The Machine Tools Factory is under construction nearby The Factory of the Bharat Electro nics Ltd , is shortly to be started Besides these, several industrial units big and small have sprung up in this area as a result of the liberal policy followed by the State Government in encouraging private enterprise and at the same time pioneering certain industries themselves

The avenues of employment created by these activities together with the civic amenities and the educational and medical facilities available here have brought to the City a larger number of persons who in all likelihood will become permanent residents Further the economic conditions in the neighbouring Provinces due to continuous drought for nearly five years, have at times given an impetus to migration of people from Tamilnad and Andhra areas into Bangalore thus adding to the floating popula tion of the City

It may be noted in this connection that nearly two lakhs of people or nearly 25/ of the City population are according to the Census of 1951 persons born outside the State The bulk of them have come from the adjoining States in South India but people from Northern India constitute no inconsiderable element of the immigrant population of the City

Bangalore Development Committee under the Chairmanship of Pradhana Siromani Sri N Madhava Rao B A, B L, C I E

The result of the increase of Population has been to accent uate the gravity of some of the City problems These problems are dealt with in greater detail in the report of the Bangalore Development Committee which was appointed by the Govern ment of Mysore on 18th March 1952 with Pradhana Siromani Sri N Madhava Rao B A, B L C I E as Chairman, to draw up a comprehensive general plan of development for the City of Bangalore and the adjoining rural areas Here it is necessary to mention the three most important among these problems in respect of which the Corporation has unavoidably to seek the aid of the State Government and of the Union Government viz, (1) provision of adequate water supply, (2) provision of under ground drainage for the entire area of the City with correspond ing arrangements for the sewage disposal and (3) the improve ment of slums

In the paragraphs which follow these three items are examined separately and the actual requirements under each are indicated

These are large undertakings and although some of them are to be pursued continuously until completion, it is realised that some phasing of the expenditure is necessary with reference to the total resources that may be available and also with refer ence to the time necessary to carry out the detailed investigations and secure supplies of necessary materials

Government Assistance

Normally the burdens of the Municipal administration have to be borne by the residents and the Corporation, on its part, is ready to meet them to the full extent out of its resources which it hopes to improve on lines that may be recommended by the

Taxation Enquiry Commission At the same time, in the case of a City like Bangalore, where Municipal services and amenities have to be adjusted to the needs of a community which is constantly receiving accretions from the other parts of the State, as well as from other States in India there is every justification for expecting substantial help from the State and the Union Government

The Mysore Government have always been ready to come to the assistance of the City Municipal administration The water supply Scheme of Thippagondanahalli was carried out by the Government of Mysore exclusively from State funds, involv ing an outlay up to date of about Rs 135 lakhs In order to augment the supplies from this source to meet urgent needs, further works estimated to cost Rs 60 lakhs are also being under taken by the Government

The expenditure in regard to underground drainage system of Bangalore amounts to so far as Rs 41 00 000 of which one half or more has been met by the Government of Mysore The City Improvement Trust Board which was set up in 1945 has laid out several residential extensions and carried out other improvement works at a cost so far amounting to Rs 75 lakhs

Similarly the erstwhile Civil Station Municipality received liberal grants for various municipal purposes Although these grants were largely met out of the revenues of the Assigned Tract (which was really part of the Mysore State s revenue) there were occasional grants from the Government of India from the Indian revenues This latter assistance mostly took the form of contri butions made by the Defence Department to water supply and other improvement schemes in which that department was specially interested

The interests of the Union Government in Bangalore at present are much greater than those of the former Government of India Of the total municipal area of 26 7 square miles, the Defence Departments are in possession of lands aggregating 6 square miles in area This is in addition to various camps

established in the vicinity of Bangalore Out of the total water supplies of 10 to 11 million gallons per day one million gallons is earmarked for Jalahalli Apart from the growing Civil and Military establishments of the Central Government the National Industries already mentioned employ or are likely to employ in the near future some 29 000 workers accounting for nearly one lakh of the population The consequent pressure on housing accommodation and community services is evident

While the activities of the Union Government thus add to the responsibilities of the Corporation their contribution to the finances of the Corporation are by no means significant

(1)	Rates and Taxes		Nil	
(2)	Contribution for water supply		Nil	
(3)	Contribution for maintenance of roads in Military area		Actual cost upto a maximum of Rs 25 000 p a	
			Rs 25 000	
(4)	Other payments—(i)	Street lights—Military area	Rs 3 879	
	(ii)	Maintenance of main sewer 1/3rd share	Rs 3 000	approximately
		Total	Rs 31 879	

1 WATER SUPPLY

History and Development of Water Supply of the City

The first scheme of protected water supply called the Chamarajendra Water Works was undertaken in 1894, the source of supply being the Hesaraghatta Reservoir on the Arkavathi River The population then was 1 80 360 and the scheme was designed for supplying a population of 2 50 000 In 1922 this maximum population was reached and a new source had to be thought of After thorough investigation the reservoir at Thippagondanahally was constructed While the Hesaraghatta Reservoir was a joint enterprise of the State and the Indian

Government the Reservoir at Thippagondanahalli was solely financed by the Government of Mysore This reservoir was put into service from 10th March 1933 The capacity of the plant and rising main was designed to supply 6 million gallons a day for a population of 3 lakhs Additions and improvements have been effected since 1942 and the City is now getting a maximum of 10 8 million gallons from Thippagondanahalli Reservoir in addition to 1 3 million gallons from the Hesaraghatta Tank The average daily supply actually drawn is about 10 million gallons

Present position and the Necessity for Improving Water Supply to the City

This supply is inadequate for the population of more than 8 lakhs The government have now undertaken to raise the weir and dam level by 10 feet and to instal additional filters and other improvements at an estimated cost of Rs 60 lakhs But the question of distribution is the concern of the Corporation The distribution mains were laid in the period 1900 to 1920, when the population was about 2 lakhs The population now is more than four times than what it was then The size of these mains is inadequate for the present conditions In some places G I pipes of 1½ and 1 dia are laid as supply mains The life of the G I pipes is only 15 years and so most of the pipes are corroded and leaky It is urgently necessary to replace these mains by 4 to 6 cast iron pipes In the Civil area, the position is worse There are only three mains which are now feeding the entire Civil area Of these the Northern main was not designed to supply the extensions of Benson Town Williams Town etc But as a measure of emergency, this main has been extended with the aid of booster pumps to the Extensions also, with the result that both the old and new areas served by the northern main are suffering for want of adequate supply

Observations of the Bangalore Development Committee in connection with Improvement of Water supply

The Bangalore Development Committee has also observed in this regard that ' Immediate action is called for to instal new

pumps and stand byes and to carry out the works expeditiously to ensure a supply of at least 16 million gallons which will give an average of 20 gallons *per capita* for the present population Distribution system of the City was originally designed for a population of 1 50 000 to 2 50 000 It has now to cater for a population of 8 00 000 Almost all the mains are inadequate

Total cost of schemes for improving distribution

With a view to finding out the cost for renewing the mains and sub mains and other materials necessary ro establish a suitable distribution system to cope with the present demand estimates have been prepared for all the 50 divisions of the Corporation area They are appended to this note The total cost as per the estimates works out to Rs 79 12 002/

Many of the house connections have no meters and there is reason to believe that large quantities of water are wasted or utilised for relatively unessential purposes such as for gardening In order to control consumption and to ensure that water taken in excess of the free allowance is duly paid for it is necessary that all house connections should be provided with proper meters

The City s requirem nts in respect of water supply thus fall under three heads —

(1) *Augment ng supply at the source including the provision of additional pumps and filters* The ultimate target is to secure a supply of the order of 60 million gallons per day from the Cauvery basin, which may be regarded as a perenial source On account however of the heavy cost involved this scheme though inescapable in the future may perhaps be deferred until the end of the second National Plan Period So far as the City s requirements in the immediate future are concerned the works undertaken by the Government of Mysore for drawing increase supplies from the existing reservoir at Thippagondanahalli would seem to be reasonably sufficient As this scheme is being fully financed by the State Government it is not taken into account in the proposals outlined in this note

(2) *Distribution*—With regard to distribution, the main items are the following —

Replacing old and unserviceable Mains	34 91	Lakhs
New feeder mains	10 97	,,
Service Reservoirs	33 24	,,

A statement is appended showing how this expenditure may be spread during the remaining two years of the current Year Plan as well as during the 2nd Plan period — Vide Appendix A and AA It will be seen that the amount to be provided for 1954 — 55 and 1955 — 56 would be about Rs 34 56 380/ and for the Second Five Year plan Rs 44 55 622

(3) *Installation or renewal of house meters*

In order to secure economy in the use of waters and to obtain the full amount of revenue derivable from this source all house connections have to be equipped with reliable meters It may be possible to evolve a scheme by which house owners are required to provide meters at their own cost but if this should be found not feasible the cost of the scheme which is estimated to cost about Rs 10 lakhs will have to be met initially from municipal funds The work is of such a character that once under taken it should be carried out within 2 or 3 years

2 Underground drainage scheme and sewage disposal

(A) Underground drainage scheme

Bangalore City is situated at an altitude of 3 000 feet above the sea level and the topography of this town is such that the whole area is full of valleys and ridges No one common out fall can be secured for the collection of the sewage of the town at one convenient point for the effective disposal The drainage system of Bangalore is designed with a capacity of 20 gallons per capita discharging in 12 hours under the separate system that is most suited for the Indian conditions The City area which has 13 55 sq miles has got the sewage system covering 90/ of the area This work was carried out at an estimated cost of 41 lakhs

under the Comprehensive Drainage Scheme executed until 1945 by the State P W D and subsequently by the City Improvement Trust Board Half the amount of the above scheme was borne by the State Government as subsidy to the Municipality and the remaining half was contributed by the Municipality by raising a debenture loan This scheme is almost complete now but as stated already, it relates only to the City area and further it does not provide for the treatment and final disposal of the whole quantity of sewage from that area In the Civil Station which is 13 2 sq miles in extent hardly 1/3rd of the area is equipped with sewers In the execution of the various schemes done so far, the share of the Defence Department was about Rs 55 000 Latterly there has been no aid from this source At the same time the State Government which was contributing 50/ of the Comprehensive Drainage Scheme of the City was not prepared to extend the same concession to the Civil Station also Unfortunately therefore after the formation of the corporation the extension of the sewer lines in the Civil area is done entirely out of the Corporation funds The expert Committee which met in the year 1951 recommended that a Comprehensive Drainage Scheme should be got up including the civil area The Bangalore Development Committee also accepted the proposal of the expert Committee The Corporation passed a resolution on 9 7 1953 that a drainage scheme for the entire area of the Corporation be got up and the cost being apportioned between the Corporation and Government on 50/ basis each This proposal has been sent to Government and to the City Improvement Trust Board for consideration

Estimates for the laying of sewer lines for the remaining portion in City and Civil Station areas are worked out and it is proposed to take up some of these works during the first Five Year Plan period vide statement B enclosed at a cost of Rs 30 00 960/ The rest of the works will be taken up in the next Five Year Plan period vide statement BB enclosed The total cost of these drainage works exclusive of the disposal works comes to Rs 69 41 760/ With the completion of the sewer lines

as programmed above there would be some places here and there in the City area still unsewered These are areas where unauthorised layouts have sprung up on private revenue lands within the Corporation limits They contain pucca buildings and could not be classified with the other insanitary slums with thatched huts in the City The cost of giving sewer lines to these localities may further cost the Corporation about 10 lakhs

(B) The Sewage Disposal Scheme

The City sewage is drained into Koramangala Valley Vrishabhavathi Valley Channammana Kere Valley and Muni reddipalayam outfall The sewage out fall for the whole of Civil Station area is the Chellaghatta Valley The out fall sewer for the Civil Station area has yet to be laid out At present it is flowing in a big open drain in the heart of the City

There are a number of pools of sewage in the valley and they have become the chief source of mosquito breeding The sewage which is highly concentrated and wholly untreated putrifies and emanates foul smell intolerable to the residents bordering the out falls It is high time that the disposal of the sewage was tackled on a high priority basis in the general interest of the residents of the town and of the villages near the out fall valleys The method of disposal of the sewage of 8 lakhs of people consuming 11 million gallons per day in an inland town like Bangalore is no easy problem Expert Committees have considered the question of the most economical method of treatment for the sewage It has now been finally decided that the treatment of sewage by sedimentation and by broad irrigation would be the simplest and the most economical for the City

Recommendat on of Sri C N Narasinga Rao Committee—appointed by the Government to work out the sewage Disposal scheme

The latest of the expert Committees was one appointed by Government in 1950 under the Chairmanship of Sri C N Narasinga Rao, B A , B L the then Chairman, City Improvemen

Trust Board This Committee has recommended preliminary treatment of sewage by sedimentation and secondary treatment by land irrigation in seven sewage farms two major and five minor the details of which can be found in the appended estimates—vide Appendix (C) Land required for the farm when it is fully developed is 1650 acres out of which 1200 acres are now vested in the Central Government Defence Department and used as a grass farm This land treatment scheme is possible only if the military can make the land on the Agram Plain available for the sewage farm If this is not possible the alternative would be found in Bio filteration method at Koramangala and Chellaghatta Tank beds and the effluent finally dropped into the natural storm water drains Bangalore being an important military station it is but reasonable to expect the Government of India in the Defence Department to pay a substantial contribution towards the cost of Disposal works The Bangalore Development Committee have recommended that so far as the Koramangala and Chellaghatta Valleys are concerned the only land available for treatment of the sewage is the Agaram Plain which is vested in the Central Defence Ministry The State Government should make every effort to persuade the Government of India to make this land available in the interest of the public health of the City

The Government of India have now sanctioned a loan of Rupees Six lakhs under the Grow More Food Campaign whereby the Vrishabhavathi Valley Scheme is being initiated

From the above facts it is obvious that the Central Government which has large and varied interests in this town with several key Industries and with the Defence Department occupying practically 1/4th of the area of the town should contribute very liberally for implementing the sewage scheme to completion This scheme may yield a substantial revenue when the sewage which is at present running waste is fully utilised for broad irrigation This is another reason for according a high priority to the scheme A statement showing a total expenditure under sewage disposal during the first five year plan period and the

Second Five Year Plan period is enclosed herewith—vide Appendix 'C

Storm Water Apart from sewage for which the underground system is designed a sum of Rs 15 lakhs is required to canalise the storm water drains and to drain off seepage water in the low lying areas of the City which will go a long way in preventing mosquito breeding and improving public health A statement showing the amount of money that is programmed to be spent on this work in the first five year plan period and the second five year plan period is appended herewith

(3) SLUM CLEARANCE

Number of slum areas in the City which are a big source of danger to the Public

Apart from the two urgent amenities cited above the tackling of the improvement of the 91 slums that have sprung up in the heart of the City with a population of 75 000 (exclusive of the industrial labours population of 7230) housed in 12 428 insanitary huts constituting about 1/10th the population has become a vexing problem to the Corporation These slums are spread over the different parts of the City on private revenue lands, Corporation lands and Government lands They have developed in an irregular manner to the detriment of the orderly expansion of the City and are a source of potential danger to the public health of Bangalore It has thus become a major Civil problem to be solved immediately The immediate cause for this sudden growth of the slum has already been dealt with in the introductory portion

How to Tackle the Slum problem

In many cases the slum dwellers can be housed in the very place in a sanitary way and the extra persons will have to be housed in a new place In some cases the entire body of slum dwellers will have to be shifted to a new place and settled there The essential amenities thought of for these slum dwellers are water supply latrines and surface drains Further in practice it is found that the shifting of the slums once and for all from the

existing places to places far away will become an impossible task as the type of people residing in slums would like to remain as near to their place of employment as possible The only alterna tive will therefore be the improvement of the existing slums wherever possible in the manner suggested above and moving the people to other suitable places wherever necessary

Observations of the Bangalore Development Committee

The observations of the Bangalore Development Committee are extracted below —

Improvement or clearance of slums should be given high priority in any organised effort for improving urban housing In many cases it may not be necessary to demolish huts and shift the people to other localities It may be sufficient to realign or widen some of the streets and remove only those buildings which project into the reformed streets or which may be other wise objectionable With such adjustments and with the provision of v ater taps public latrines and surface drains a large proportion of the people may be allowed to remain in their present dwellings Slum improvement rather than slum clearance should be the rule

Scheme proposed for clearing the Slums and for housing the Slum dwellers in proper sanitary Quarters

Based on the above policy a statement showing ninety one Slums of the Corporation area is appended herewith which furnishes the following information viz the name of the Slum with the Corporation Division the number of families in each Slum the area occupied by the existing Slum the number of families that can be accommodated in the same area relaid on sanitary lines and the places where the excess persons can be accommodated It has been worked out that on one acre plot about 50 families can be housed by allotting to each a site measuring 20 x 30 only with a road of 15 feet width The cost of creating amenities for these sites will come to Rs 200 per family (Underground drainage line Rs 6 per R ft , water supply main Rs 6 per R ft and provision of road storm water side drains Rs 5 per R ft earthwork excavation gravel road

formation etc Rs 3 per R ft —Total Rs 20 per R ft of road or Rs 10 per R ft of frontage of the site) The cost of creating amenities like the flush out latrines washing platforms, a tap for each site will cost Rs 150 per family The Slum dwellers are all in the heart of the City and in some cases the areas are private garden lands Hence the valuation for acquisition may be taken at Rs 16 000 per acre (as per the High Court award for garden lands in City) The land value per family based on that valu ation comes to Rs 360 per family including the road portion A sum of Rs 40 per family has been taken as the minimum charges for shifting the existing huts The total cost for housing a family on sanitary lines comes to (Rs 600 plus Rs 150)—Rs 750 A statement showing the portion of work that would be taken up during the 1st Five Year Plan period and 2nd Five Year Plan period is worked out vide appendix D and D D A small monthly ground rent of Rs 2 to Rs 3 will be leviable for the Slum dwellers and the amount realised will be utilised partially for the annual maintenance and partially for the liquidation of the Loan drawn for the purpose

The Industrial labourers residing in the Slum areas, num bering 3 157 families are not included in this programme as they have been getting the benefit of housing facilities under the Housing Scheme sponsored by the Government of India This Scheme is estimated to cost Rs 1 02,28 680 and the work could be spread over two years viz 1955 56 and 1956 57 The entire cost may be met out of the subsidy and loan granted by the Government of India Hence this scheme and its cost is excluded from the purview of the Corporation demands

The approximate cost of the various proposals dealt with in this memorandum is as follows —

I Five Year Plan		Rs	Rs
(1)	Water Supply	34 36 380	
(2)	Underground Drainage	30 00 960	
(3)	Sewage Disposal Scheme	5 00 000	
(4)	Canalising the seepage water	2 00 000	
(5)	Slum Improvements	22 89 600	
	Total		94,46,940

II Five Year Plan		Rs	Rs
(1)	Water Supply	44 55 622	
(2)	Underground Drainage	39 40 800	
(3)	Sewage Disposal work	85 00 000	
(4)	Canalising Seepage Water	13 00 000	
(5)	Slum Improvements	88 96 560	
	Total		2 70 92 982
	Grand Total Rs		3 65 39 922

The Schemes proposed above were discussed from time to time with the Government of Mysore and they have been prepared in accordance with the instructions given by them These Schemes are of very urgent nature and require immediate attention in the interest of the public and several industries that are being started almost every year under the auspices of the Government of India It is therefore submitted that the required loan may be sanctioned on liberal terms together with substantial subsidies

General Abstract Showing the works to be taken up in the First Five Year Plan

1954—1956

1	Water supply	Rs	54,56,380	Appendix A
2	Under ground Drainage	,,	30 00,960	B
3	Sewage disposal work	,,	5 00,000	C
4	Canalising the seepage water	,,	2 00,000	
6	Slum Improvements	,,	22 89 600	D
	Grand Total	,,	94,46 940	

APPENDIX 'A

ɔstract Showing the Expenditure for Laying water mains and Sub mains in the Corporation Area Bangalore, During the 1st Five Plan—(4th & 5th year) 1954 to 1956

o	Division No	Amount Rs	Remarks
	1	33 937	
	2	57 228	
	3	45 682	
	5	3 750	
	6	46 162	
	7	10 450	
	8	46 880	
	9	6 018	
	10	11 412	
	11	1 04 477	
	12	10 828	
	13	25 988	
	14	16 598	
	15	10 480	
	16	30 077	
	17	11 528	
	18	20 129	
	19	73 661	
	21	33 381	
	22	47 000	
	23	1 27 960	
	24	15 237	
	25		
	26	14 640	
	27	5 348	
	28	7 904	
	29		
	30	7 125	
	31	7,00 000	
	Purchasing of materials for fixing up meters in all Divisions	72 500	
	Civil Area Division Nos 32 to 50	8 60 000	
	Raising main with Reservoirs	10,00 000	
	Grand Total	34 56 380	

[3]

APPENDIX A

Statement Showing the Estimates for Laying water Sub Mains

Proposed works to be taken up during 1st Five Year Plan 1954 56

DIVISION No 1

Sl No	Name of work	Amount	Remarks
		Rs	
1	Laying 2½ line in 4th Main Malleswaram to link the lines in Srirampuram	3 363	
2	Laying 2 sub main in 11th Main Road between 13th & 8th Cross Road Malleswaram	4 224	
3	Laying 3 C I Main in Old Tumkur Road Malleswaram	10 920	
4	Laying 3 C I Sub main in 15th Cross, 13th cross and 11th main Road, Malleswaram	11 655	
5	Extension of water supply sub main in 3rd Main Road Malleswaram for 17th cross to 16th cross Road	1 495	
6	Laying 3 C I Sub main between 8th and 9th Cross, 3rd Main Malleswaram	2 280	
	Total	33,937	

DIVISION No 2

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Sampige Avenue Road in Malleswaram for 3rd cross 2nd cross Roads to the Sampige Avenue Road conservancy upto South end Road	9,532	
2	Improving water supply to 7th 8th & 9th main Road by laying 3 C I Main in crosses of existing 1½ G I sub main between 9th & 8th conservancy and between 8th & 9th main conservancy	7 510	
3	Laying 3 C I Main in places of 1½ G I and 1 G I pipe in Jakkasandra 8th cross and cattle pound Road Malleswaram	6 885	
4	Laying 3 C I Main in 2nd main Road North of Link Road Seshadripuram	1 800	
5	Laying sub mains in Swimming pool extension Malleswaram	31 501	
		57 228	

DIVISION No 3

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying sub main in 3rd Cross Road Lakshminarayanapuram, Extension Srirampuram	2 750	
2	Laying a 3 C I Sub main in front of the vegetable Market in 7th Main Road Srirampuram	2,967	
3	Laying 9 6 and 3 Sub mains in Srirampuram for improving water supply to Srirampuram Area	40 000	
	Total	45 682	

75

DIVISION No 5

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 3 C I Main in Sweepers quarters area, Risaldar Street	3,750	
	Total	3,750	

Works to be taken up during 2nd Five Year Plan 1956 58

NIL

DIVISION No 6

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 sub main opposite to Brahmana Bikshanna Nilaya, Seshadripuram Extension	9,200	
2	Improving water supply to Seshadri puram 2nd & 3rd Main Road	10,035	
3	Laying 6 main in Ramakrishna Block Seshadripuram	26,927	
	Total	46,162	

DIVISION No 7

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 4 main in Thotadeveragalli, Cottonpet	10 450	
	Total	10,450	

Works to be taken during 2nd Five Year Plan 1956 58

NIL

DIVISION No 8

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 3 C I main in all the 9 cross Roads of Gopalpur, Kempapur Agrahar	46 880	
	Total	46 880	

DIVISION No 9

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 3 C I Sub main in Murugapuram Kemmangundi Road	4 140	
2	Improving water supply to Velumuruga-puram by laying 3 C I Line	1 878	
	Total	6 018	

DIVISION No 10

Sl No	Name of the work	Amount	Remark
		Rs	
1	Estimate for laying a 3 sub Main in Gandudi Kitchaiah Line, Rangaswamy Temple Street Cross	2 367	
2	Laying a 3 C I Sub main in Hoovadi gar lane, Chickpet	2 950	
3	Laying 6 C I feeding line at Basavanna Temple Street (10th & 11th Division)	6 095	
	Total	11,412	

DIVISION No 11

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I Sub main in Anchepet Cross lane between Killari Road and Basavanna Temple Street	2,100	
2	Do in Chikka Garudi Lane Rangaswamy Temple Street	3 729	
3	Do in Maistry Chikkanna lane Basavanna Temple Street	2,381	
4	Revised Estimate for Rs 32 974 as per actuals for laying 9 & 4 C I pipe in old Hospital Road & Killary Road as against the original sanctioned estimate for Rs 26 467	6 507	
5	Laying a 3 sub main in the Cross lane of Killary Road	1 978	
6	Do in Ramappa Naik lane Killary Road	1,507	
7	Do in the Cross lane of Killary Road behind Rice Memorial Hall	2 208	
8	Do in 28th 29th and 31st Cross lanes of Killary Road	3 864	
9	Do in 23rd & 24th cross lanes between Killary Road and Ranga swamy Temple Street	5 520	
10	Do in Cross road Nos 25th & 29th of Killary Road	2 600	
11	Do in 20th & 10th cross lanes of Killary Road	2 933	
12	Do in the cross lane No 5 Killary Road	1,472	

DIVISION No 11—(contd)

Sl No	Name of the work	Amount	Remarks
		Rs	
13	Laying a 3 sub-main in the cross lane No 2 Rangaswamy Temple Street	2,305	
14	Do in 20th Cross road—Killary Road	2,185	
15	Do in Munia Maistry Lane between 17 & 21st cross Roads Killary Road	3 427	
16	Do in 3rd cross Road of Killary Road	1,460	
17	Do in 5th cross Rangaswamy Temple Street	1,955	
18	Do in the cross lane between 1st and 2nd Cross Roads Rangaswamy Temple Street	2,484	
19	do in the cross lane 28th & 29th cross roads, Killary Road	1,955	
20	Do in 3rd cross lane Ranga swamy Temple Street	2 507	
21	Laying a sub main in Sondekoppa Narasimhanna lane	2,270	
22	Laying water sub mains in the cross lane of Killary Road	3 565	
23	Laying water sub mains Hodihanuman thappa lane	3,830	
24	Laying 3 sub main in the cross lane of Killary Road from Hospital Road to Rangaswamy Temple Street	4 934	
25	Do in Basavanna Temple Street from Sondakoppa Narasimhanna Lane	4 440	

DIVISION No 11—(contd)

Sl No	Name of the work	Amount	Remarks
26	Laying 3 sub main in cross Street No 24 & 5 between Hospital Road & Basa vanna Temple Street	Rs 4,040	
27	Do in cross Street No 28 between Killary Road & Basavanna Temple Street	2 823	
28	Do in cross street No 30 & 32 between do	4 534	
29	Do in 5th cross Killary Road	2 484	
30	Do in 32nd cross Killary Road...	2 921	
31	Do in 30th cross Killary Road	2 818	
32	Do in 29th do	2 921	
33	Do in 20th do	2,921	
34	Do in 9th do	2 415	
35	Do in 6th do	2 484	
	Total	1,04 477	

DIVISION No 12

Sl No	Name of the work	Amount	Remarks
1	Improving Water supply to Ananda Rao Circle and Gandhi Nagar Extensions	Rs 10 828	
	Total	10 828	

DIVISION No 13

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I Sub main in Muni ramanna Lane Akkipet	2 440	
2	Laying water supply sub main in Santhu sapet cross lane from Chickpet Main Road	2 070	
3	Do in Talakadu Subba Rao lane and adjoining lane between Sub ramanna lane and Obiah lane	4 715	
4	Do in Pinjari lane between T C Road and Kottige Veerabhadriah lane	2,185	
5	Do in Mansuria lane and adjoin ing lane between T C Road and Kottige Veerabhadraiah lane	4 485	
6	Laying 3 sub main near Kasi Visves wara Temple and Santhusapet Road in Manavarthapet area	3 278	
7	Laying the proposed water sub main in Talakadu Subbarayappa lane	3 595	
8	Laying 4 C I lane in Mansuria lane T C. Road cross	3 220	
	Total	25 988	

DIVISION No 14

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Removing 1¼ & 1 sub main and laying 3 C I Sub main in Beli Mazid Road	4 212	
2	Laying 3 pipe line in the surrounding area of Shankaradevara mutt, Mana varthpet	8 913	
3	Do in Seegebeli and Arcot Srinivasachar Street	3 473	
	Total	16 598	

DIVISION No 15

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 4 C I Sub main in Munira manna lane between Police Road and Setty Muddanna lane	6 325	
2	Laying 3 sub main for the water supply to the washing plat form at Cheluvadi palya	4 155	
	Total	10,480	

DIVISION No 16

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 6 C I main in Mysore Road Doddapalya	30 077	
	Total	30 077	

DIVISION No 17

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I line in Albert Victor Road Chamarajpet	6,434	
2	The Proposed construction of a store room and a latrine attached to Chamarajpet Pumping Station	6 712	
3	Providing 3 C I Sub main in Shiva ganga Mutt Road	2 382	
	Total	11,528	

DIVISION No 18

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I Sub Main in Chidambara Mudaliar lane	3 041	
2	Laying a 3 C I Main in Kalasipalyam	5 775	
3	Modified estimate for Rs 4 050 as against sanctioned estimate for Rs 4 370 for laying 2½ sub main in F Street Kalasipalyam	4 050	
4	Laying 4 C I line and removing 3 C I Line in Albert Victor Road—Kalasi palyam	6 434	
5	Replacing 5 old valve by a new 9 valve on 9 line feeding, Kalasipalyam	829	
	Total	20 129	

DIVISION No 19

Sl. No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I Sub-main Nanjunda Mudaliar Street Guttahalli Street Cross Road	6,128	
2	Improving water supply to higher areas of Chamarajpet by laying a 82 out-let from Chamarajpet towards T R Mills	22,195	
3	Replacing the 2 G I line by 3 pipe line in 3rd cross Road, Gavipuram Extension Basavangudi	3,729	
4	Replacing 1½ line by 3 C I line in the conservancy lane between 2nd & 3rd cross Road Gavipuram Extension	5,684	
5	Do in the conservancy lane between 1st and 2nd cross Road Gavipuram Extension	3,866	
6	Do in the conservancy lane between Bull Temple & 1st Cross Road Gavipuram Extension	6,419	
7	Laying 4 feeder lines for Bull temple Road 1st Cross Road Gavipuram Extension	2,600	
8	Extending 4 lines from 1st cross road to 3rd cross road, Gavipuram Extension	2 655	
9	Laying a 3 sub main in Gavipuram Guttahally	3,565	
10	Providing water supply to the Feeder line to Sri Shivashankar layout	16 820	
	Total	73,661	

DIVISION No 21

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Parvathipuram Visveswarapuram from Basappa Circle to Sajjan Rao Circle --	14 855	
2	Do to east road Middle School Road Rama Iyengar Road Visves warapuram	11 722	
3	Do to East Road Do	6 804	
	Total	33,881	

DIVISION No 22

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 15 lane from Mount Joy Tank To Bugle Rock Tank, Basavangudi	47 000	
	Total	47 000	

DIVISION No 23

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 Sub main in Ranoji Road Basavangudi	3,701	
2	Laying sub main in East Road and South Road junction	4 255	
3	Replacing 1½ G I Main for improving water supply at Sri Rama Mandiram Road	3 941	

DIVISION No 23—(contd)

Sl No	Name of the work	Amount	Remarks
		Rs	
4	Laying a 3 sub main in place of 1½ line in Sannadhi Road Basavangudi	5 460	
5	Laying a 3 line in East Road between Mosque Road and Kankanpalya Road	4 697	
6	Replacing 1½ line by a 3 line in the conservancy behind East Road and Kaj Street and between Mosque Road and Pattalamma Street in Mohamma dan Block Basavangudi	4 510	
7	Replacing 1½ line by a 3 line East Road between Mosque Road and Pattalamma Slreet	4,388	
8	Do Kaji Street from Shariff Road to Pattalamma Street	5,299	
9	Laying 3 C I Line in Mosque Road from East Public square Road to East Road—Mohammadan Block Basavan gudi	4 886	
10	Replacing 1½ line by 3 C I line in Pattalamma Street Conservancy to Kaji Street to East Road	4,648	
11	Improving water supply to Sannadhi Street by installing a booster pump at Bugel Rock pump house	6 033	
12	Improving water supply to Pattallamma Street, Basavangudi by laying a 4 main	6 310	
13	Laying 3 sub main from south end Road to Kankanhally Road	4 225	
14	Replacing old 1½ line in conservancy between South cross Road and Kankan halli Road	4 262	

DIVISION No 23—(contd)

Sl No	Name of the work	Amount	Remarks
		Rs	
15	Removing and relaying 2½ line from Krishna Rao Road to Rathana Vilas Road between Kankanhally Road and Pattalamma Street	1 037	
16	Installing a 5 H P Booster pump set at Basavangudi	1 688	
17	Constructing a watchman quarters at Basavangudi behind Balacing Tank	1,997	
18	Constructing a bath Room and Lavatory to the watchman quarters and Balacing Tank Basavangudi	972	
19	Installing a Booster pumping Station at Vanivilas Circle , Basavangudi	58 075	
20	Working cost of the Booster pump at Vanivilas circle	36 060	
21	Replacing 1½ old pipe line by 3 C I pipe in the conservancy line between Krishna Rajendra Road and Veter inary South End Road Basavangudi	10 549	
22	Improving water supply to Pattallamma Street Basavangudi by laying 4 C I Pipe	8 395	
23	Modified estimate for Rs 6 780 replacing 2½ C I Main by 4 C I Main for improving water supply to Kankanna pura Road Basavangudi as again the original sanctioned estimate for Rs 4 199	2 581	
	Total	1 27 960	

DIVISION No. 24

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Replacing the existing G I pipe by 3 sub main in Oblappa lane Mavalli	3 781	
2	Do in Papaiah lane, Mavalli	3 845	
3	Replacing and extending the existing 1½ G I pipe line by a 3 C I Pipe line in Appaianna Lane Mavalli	3 843	
4	Replacing the existing 2½ C I Pipe line by 3 C I Sub main in Venkatappa line Mavalli	3 ,68	
	Total ..	15 237	

DIVISION No 26

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Sadarappat rappa Road	14 640	
	Total	14 640	

DIVISION No 27

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 3 sub main in Chickannamma Temple Road and linking in Karpur Adam Sab lane	5,348	
	Total	5 348	

DIVISION No 28

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 sub main in Siddanna lane Cubbonpet	1 449	
2	Do in 27th cross	2 093	
3	Do in 29th cross	1,564	
4	Do in Chowla Galli in Thara mandalpet	2 178	
5	Extending 3 C I Sub main in Pattabhi ramasastary lane	620	
	Total	7 904	

DIVISION No 30

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Replacing 2½ C I Sub main feeding Vasantha Nagar, by laying 4 C I sub main	7 125	
	Total	7 125	

DIVISION No 31

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 30 C I Pipe line from the combined Jewel Filters to the L L R	7 00 000	
	Total	7 00 000	

DIVISION No 32 to 50

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 16' main from High Ground Reservoir to Trinity Church 12 000 ft	3 60 000	
2	Service reservoirs for zones D and E	5 00 000	
	Total	8 60 000	

APPENDIX B

Abstract showing the list of works proposed to be taken up under the under ground drainage scheme 4th & 5th Year in the Corporation Area during the 1st Five Year Plan Period (4th Year) 1954 to 1956

	Rs
1st FIVE YEAR (4th year)	6 24 600
2nd FIVE YEAR (5th year)	23 76 370
Grand Total	30,00 960

Sl No.	Particulars	Quantity	Rate	Cost
			Rs	Rs
	NORTH RANGE			
1	Portion of Ramachandra purm Area	8 000 rft	6	48 000
2	Pipe line extension Seshadripuram	7 500 ,	6	45 000
	SOUTH RANGE			
1	Ramachandra Agrahara	3 000 ,,	6	18 000
2	Drainage arrangements to Kankanhally as per estimate			10 000
3	Drainage arrangements to to Siddalur Village as per estimate			16 000
4	Extending out fall sewer to the South of N R Colony			30 000
	CIVIL AREA			
	SUB MAIN SEWERS			
1	Cooke Town 20 000 rft			
2	Fraser Town 25 000 ,,	50 500 rft	7	3 53,500
3	Charles Campbell Road 5 500 ,			
	Add for establishment charges tools & plant contingencies (12½/+2½%+5/ = 20/)			1,04 100
	Total			6,24 600

APPENDIX 'B

Statement showing the list of works proposed to be taken up under the underground drainage scheme 4th & 5th year in the corporation area during the first five year Plan period 5th year 1954 56

Sl No	Particulars	Quantity	Rate	Cost
	NORTH RANGE			
1	Swimming pool Extension area Malleswaram	20 000 rft	6	1,20 000
2	Kothandaramapuram and Ranganathapuram Area	15 000	6	90 000
	SOUTH RANGE			
1	Gavipur Village including the outfall joining near the Bridge near Gavipur Gut tahalli	10 000 ,	6	60 000
2	Mysore Road and cross roads of Chamarajpet ..		—	1,20,000
	CIVIL AREA			
1	Duplicate sewer mains along Guntroop valley up to Domlur Tank 21 Diameter sewer line	5 000 ,,	45	2 25 000
2	Do from main sewer in Dhoby Ghat up to Pottery Town	10 000 ,,	30	3,00,000
3	Do from Langford Road to Richmond Road junction 12 sewer line	2 000 ,,		
4	Do Richmond Road to Brigade Road junction along Commissiarate Road and Magrath Road	2 000		

APPENDIX 'B —(Contd)

Sl No	Particulars	Quantity	Rate	Cost
5	Do from the Main sewer in Indian Gymkhana to Madhavaroya Mudali ar Road	1 000 ,		
6	Do from Isolation T B Hospital to Main sewer in Old Madras Road	6,500 ,		
7	Do main sewer from Nandavanam to the pro posed Ovoid Sewer	3 000 ,,		
		14 500 ,	25	3,62,5000
	SUB MAIN SEWERS			
8	Richards Town	27,200 rft	7	1,90,400
9	Cleveland Town	14 200 ,		
10	Between Thimmiah Road & Slaughter House Road	17 000 ,,		
11	Miller Road & Benson Town	20,000 ,,		
12	Haris Road	6,000 ,,		
13	Area to the West of Queen s Road	14,000 ,,		
14	Seppings Road & cross	2 000 ,,		
		73,200 ,,	7	5,12,4000
	Total			19,80,300
	Add for Eastablishment charges tools & Plants and contingencies (12½% + 2½% + 5% + 20%)			3 96 060
	Total			23 76 360

APPENDIX C

ɔmprehensive Scheme of Sewage Disposal and Treatment and Canalising the Seepage and Storm water Drains in the Corporation Area

The total cost of sewage disposal in the whole of the Corporation Area is Rs 100 lakhs and this amount will be utilised as follows —

During the first five year plan period one lakh will be utilised for making out the ground land required starting acquisition proceedings and preparation of plant etc In the last year of the 1st Five Year Plan period Rs 4 lakhs will be utilised for starting the work

In the Second Five Year Plan the amount of money that would be spent is as follows —

1st Year	15 lakhs
2nd	20
3rd	20
4th	20
5th	20

The places where treatment would be taken up are as ollows —

1 Vrushibhavathy Valley—Kenchenahally Farm
2 Belander Valley —Agram Farm
3 Chellaghatta Valley

Regarding the Canalisation of Seepage Water

A sum of Rs 15 lakhs will be utilised for laying Hume pipes in the heart of the Town instead of big storm water drain which are now a source of mosquito breeding and foul smell due to the stagnation here and there

The Storm water drain towards Koramangala Valley, ɔrirampuram Area will have to get masonry side walls with bed

slabs for a length for 2—3 miles to take beyond Corporation limits and drop to natural valley The proposal for utilisation of amount would be as follows —

1st Five year Plan	5 lakhs
Last Year do	1 5 ,,

2nd Five Year Plan

1st Year	2 Lakhs
2nd	2 5 ,,
3rd	2 5 ,,
4th	3 ,
5th	3 ,

Details for the Storm water drains and for the Hume Pipes are being worked out

APPENDIX D

Abstract Showing the Particulars of the various Slum Areas within the limits of the Corporation Area of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation

1	Works to be taken up in the 1st Five year plan (4th year)	Total Amount Rs	8 26,200
2	Works to be taken up in the 1st Five year plan (5th year)	Total Amount Rs	14 63,400
		Grand Total Rs	22 89,600

APPENDIX D

Statement Showing the particulars of the various Slum Areas within the limits of the Corporation of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation

Sl No	Div No	Name of the Slum Area	Area occupied	No of families in the slum	No of families that can be accommodated in the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing & proposed place with acquisition
1	2	3	4	5	6	7	8
		Works to be taken up in the Ist Five Year Plan Period (4th year)					Rs
1	5	Swathantrapalyam 5th Main Road Srirampuram	13 acres	578	578		3 46,000
2	19	Guttahalli Choultry North & South	2 25 ,,	340	110	5 acres	2 04 000
			Total	918		Total	5,50 800
		Providing flushout latrine, washing plat form and a tap at Rs 150 per family		918 x 150 =			1,37 700
		Add for establishment charges tools & plants and contingencies ($12\frac{1}{2}$ / + $2\frac{1}{2}$ / + 5% = 20%)					1 37 700
						Total	8 26 200

APPENDIX D

[61] **Statement showing the particulars of the various Slum Areas within the limits of the Corporation of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation**

Sl No	Div No	Name of the Slum Area	Area now occupied	No of Families in the slum	No of families that can be accommodated into the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing and proposed place with acquisition
1	2	3	4	5	6	7	8
		(Works to be taken in the 1st Five Year Plan Period (5th Year)					
1	1	Pit Colony Malleswaram West	2¼ acres	68	63		40 009
2	3	Kunigal huts	¾	100	50	1 acre of land of Kethamara nahalli village already acquired	60 000
3	17	Baba Huts Mysore Road	1 2	170	60	2 8 acres required in the very area	1 02 000
4	25	Kalasipalyam huts	4 5	630		13 acres required in Magadi Road	3 78,000

APPENDIX D'—(Contd)

5	29	Behind & adjacent to Corporation Offices	6 00	550	300	5 5 acres in the same area	3 30 000
6	37	Joughpoliyam area		65			39 000
7	41	Bamboo Bazaar area		43			25 000
				1 626			9 75 600
		Providing flushout latrine, washing flat form and a tap at Rs 150 per family	1626x150 =				2,43,900
		Add for Establishment charges Tools & plants and contingencies (12½/+2½%+5%=24%)					12,19 500 2,43,900
						Total	14,63,400

General Abstract Showing the works to be taken up in the Second Five Year Plan

1956—1958

1	Water supply	Rs 44,55,622	Appendix	AA
2	Underground Drainage	,, 39 40,800	,,	BB
3	Sewage disposal work	,, 85,00,000	,,	C
4	Canalising Seepage water	,, 13,00,000		
6	Slum Improvements	,, 88 96 560	,,	DD
	Grand Total Rs	2 70,92 982		

APPENDIX 'AA'

Abstract Showing the Expenditure for Laying water mains and Sub mains in the Corporation Area Bangalore, During the IInd Five Year Plan work 1956 to 1958

Sl No	Division No	Amount Rs	Remarks
1	1	34 600	
2	2	69 105	
3	3	53 010	
4	5		
5	6	1,21 978	
6	7		
7	8	24 780	
8	9	4 70,350	
9	10		
10	11		
11	12		
12	13		
13	14		
14	15		
15	16	51,683	
16	17		
17	18	11 666	
18	19	2,10 000	
19	21	31 252	
20	22	51,187	
21	23	4,54 250	
22	24	11,244	
23	25	11,497	
24	26		
25	27	31,787	
26	28		
27	29	33,371	
28	30		
29	31	42,773	
30	Purchasing of materials for fixing up meters in all Divisions	1,00 500	
31	Civil Area Divisions— No 32 to 50	13 41,000	
32	Raising main with Reservoirs	13,00,000	
	Grand Total	44 55,622	

APPENDIX 'AA'

Statement Showing the Estimates for Laying water Sub Mains

Works to be taken up during IInd Five Year Plan 1956 58

DIVISION No 1

Sl No	Name of work	Amount	Remarks
		Rs	
1	Improving water supply 8th 10th and 11th Main Road Malleswaram by laying 9 Main ..	34 600	
	Total	34 600	

DIVISION No 2

Sl No	Name of work	Amount	Remarks
		Rs	
1	Laying 9 Trunk Main for giving water supply to the Swimming pool Extension Malleswaram	69 105	
	Total	69 105	

DIVISION No 3

Sl No	Name of work	Amount	Remarks
		Rs	
1	Laying 6 main in Sri Rampuram	40,100	
2	Utilising 3 C I Pipe line by a 3 C I Sub main in Nagappa Block Sriram puram	13 000	
	Total	53 100	

DIVISION No 6

Sl No	Name of work	Amount	Remarks
		Rs	
1	Laying a water feeder Main to Kumara Park New Extension	1 21,978	
	Total	1 21,978	

DIVISION No 8

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Goripa'ya and Royapuram and installing additional public taps	24 780	
	Total	24,780	

DIVISION No 9

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving Water supply to Aralepet and West Zone of Bangalore City	4 70,350	
	Total	4 70 350	

DIVISION No 16

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 4 C I sub main in 4th Road Chamarajpet for water supply to Raghavendra Colony and Devanatha char Street	7,490	
2	Laying 3 C I Sub main and removing 2 & 1½ G I pipe line in Raghavendra Colony and Davanathachar Street	14 151	
3	Replacing 1½ line by 3 line between 9th and 7th Cross Road Chamarajpet between 3rd and 4th Main road	3 913	
4	—do—in the conservance lane between 3rd and 4th Main Road and 1st & 5th Cross Roads Chamarajpet	6 817	
5	— do—in 4th Main Road between 5th & 9th Cross Roads Chamarajpet	6 864	
6	Laying 3 line in 4th Cross Road Azad Nagar	2 650	
7	Laying a 1½ feeder line to the Tank at Old Guttahalli Mysore Road	3 348	
8	Constructing a masonary Tank at Old Guttahalli Mysore Road	3 450	
	Total	51 683	

DIVISION No 18

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying a 6 Independent main in Kalasipalyam	11 676	
	Total	11 666	

DIVISION No 19

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Gavipuram Guttahalli	90,000	
2	Improving water supply to gavipur extension and village Choultry and temple of Guttahalli	1 20 000	
	Total	2,10 000	

DIVISION No 21

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Replacing 3 line in National College Road Visveswarapuram	4 804	
2	Improving water supply to Visveswara puram	8 174	
3	Laying 3 C I main in place of 1½ line east Road Visveswarapuram	8 745	
4	Improving water supply to Visveswara puram National High School on the North Mavalli on the South	4 125	
5	Linking the exsiting 2 C I main of Vanivilas Road by 3 C I pipe line to 4 C I Main in East Road Visveswarapuram	2 303	
6	Removing 1½ and 2½ pipes and relay ing 4 C I pipes in East Road Visves warapuram	3 100	
	Total	31,251	

DIVISION No 22

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Linking the existing 2 line in Vanivilas Road by 3 C I Pipe line in Basavangudi...	2,303	
2	Laying 3 sub main in Narasimharaja Colony	6 025	
3	Laying a 3 C I Sub main in N R Colony (for the vacant site sold by the Municipality in public auction)	6 000	
4	Extending 3 C I Sub main in 8th Cross N R Colony	4 601	
5	Laying 4 C I line for improving water supply to Gandhi Bazaar Road	7,303	
6	Laying 4 sub main for improving water supply to the Model House block Basavangudi	2 530	
7	Do in Nagasandra Road	2 530	
8	For replacing 1½ C I line by 3 C I Line between Mallikarjuna Temple Road, Basavangudi	6 210	
9	Laying 4 sub main for improving water supply to Ratna Vilas Road	2,530	
10	Laying a 4 C I main in Nagasandra Road, Basavangudi	11,155	
	Total	51 187	

[7]

DIVISION No 23

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Constructing an R C C Over Head Reservoir of 1 5 Million Gallons comprising over a stagging of 25 high	4 54 250	
	Total	4 54 250	

DIVISION No 24

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Replacing the existing 2½ C I Pipe line by a 3 C I sub main in Yellappa lane Mavalli	2 322	
2	Laying a 3 C I sub main in cross lane between Mudalappa lane and Appaianna lane and running east to west to improve water supply to Mavalli cross lane	4 720	
3	Laying 3 line in Kankanapalya Road between east Road in Kankanpalya Village	4 202	
	Total	11,244	

DIVISION No 25

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying water main in Mission Road	11 497	
	Total	11,947	

DIVISION No 27

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Taluk cutchery Road Nagartharpet	31 787	
	Total	31 787	

DIVISION No 29

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Improving water supply to Sampangi Tank Road	33 371	
	Total	33 371	

DIVISION No 31

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 3 C I sub main in Anjanappa Block Palace Guttahalli	8 073	
2	Laying 3 C I main in Nagappa Street	7,803	
3	Laying 3 sub main in Guttahalli Road to 15 raising main of L L R	6 610	
4	Laying 3 sub main in Maistry Venka tappa lane Munireddypalya	2 047	
5	Improving water supply to Annaiyappa Block Malleswaram	8 073	
6	Laying sub main 3 C I in Doddabyrappa Street Palace Guttahalli	4 520	

DIVISION No 31—(Contd)

Sl No	Name of the work	Amount	Remarks
		Rs	
7	Removing the corroded 1 feeder line by replacing the ¾ line to public Fountain in Venkatarangapuram, Palace Gutta halli	370	
8	Replacing 1½ G I sub main by 3 C I sub main in Malleswaram Temple Street and Patel Chelvappa Road Munireddypalyam	3,485	
9	Replacing 1½ G I sub-main by 3 C I sub main in Munireddy Road, Muni reddypalyam	792	
	Total	42 773	

DIVISION No 32 to 50

Sl No	Name of the work	Amount	Remarks
		Rs	
1	Laying 12 main from Trinity Church to Murphy Town	1,00 000	
2	Laying 14 main from Cubbon Road to Richmond Road 7 000 feet	1,75,000	
3	Laying 12 main from Richmond Road up to Langford Road along Hosur Road 3 000 feet	66 000	
4	Laying 12 main from the Reservoir to Tannery Road through the D Costa Layout to Richards Town, 6 000 feet	1,40 000	
5	Laying 12 main from the Reservoir to Cox Town and Fraser Town 6 000 feet	1,40,000	
6	Laying 6 sub main from 12 main along Tannery Road 2,500 feet	25,000	

DIVISION No 32 to 50—(Contd)

Sl No	Name of the work	Amount	Remarks
7	Laying 3 sub main from Davis Road along John Armstrong Road 1 300 feet	7,000	
8	Laying 3 sub main from Davis Road along Clarks Road 1 200 feet	6 000	
9	Laying 3 sub main from Davis Road along Cookson Road 1 400 feet	7 000	
10	Laying 3 sub main from Davis Road along Hall Road 2 000 feet	10 000	
11	Laying 4 sub main from Tannery Road along Viviani Road 2 500 feet	15 000	
12	Layidg 3 line in Cooks Town 6 000 feet	30 000	
13	Laying 6 sub main from the Reservoir through Jeevanhalli up to Charles Campbell Road 3 000 feet	30 000	
14	Laying 3 sub main Coxtown area 4 500 feet	18 000	
15	Laying 4 line along Kenchappa Road 1 600 feet	10 000	
16	Laying 3 line along Stephens Road 1 500 feet	8 000	
17	Other 3 main in Fraser Town 4 000 feet	20 000	
18	Laying 6 sub main from the proposed reservoir in Jeyamahal along Nandy drug Road up to Millers Road 2 000 feet	20 000	
19	Laying 6 sub main from the proposed Reservoir in Jeyamahal along Benson Cross Road Benson Road to Badera halli and Williams Town 5 000 feet	50 000	
20	Laying 6 sub main from Old Madras Road along Ramakrishnamutt Road up to C No 2 Street 2 000 feet	20,000	

DIVISION Nos 32 to 50—(Contd)

Sl No	Name of the work	Amount	Remar
		Rs	
21	3 line from Old Madras Road along Ulsoor Bazaar Street up to Yellamman Koil Street, 1 300 feet	7 000	
22	3 line along Pynee Mudaliar Street Ulsoor	3 000	
23	4 line along Satyanarayana Temple Street from Ramakrishna Mutt Road 500 feet	3 000	
24	3 line from Old Madras Road along Kaliamman Koil Street 800 feet	4 000	
25	3 sub main in Joughpoliyam 3000 feet	15 000	
26	Other 3 lines in Ulsoor 2000 feet	10 000	
27	4 sub main from Nilsandra Road along Old Race course road to Ookadpoliyam & Vannarpet 4500 feet	27,000	
28	3 line along Anjayan Street in Yella gondanapalyam 1000 feet	5 000	
29	Other 3 sub mains in Nilsandra 2000 ft	10 000	
30	6 sub main from Hosur Road along Langford Road up to mud tank 2000 feet	20 000	
31	Improving water supply in Berlie Street Moyenevilla Road	50 000	
32	Improving water supply in Langford gardens by laying 3 line 3000 feet	15 000	
33	Laying sub mains for MacIver Town	20 000	
34	Laying sub mains for Shoolay	15 000	
35	Changing old and unserviceable G I pipes into C I pipes	1 40 000	
36	Wells, Tanks and Pumps for villages	1 00 000	
	Total	13 41 000	

APPENDEX BB

Abstract showing the list of works proposed to be taken up under the underground drainage scheme in the Corporation area during the 2nd Five Year Plan 1956 58

	Rs
2nd FIVE YEAR PLAN (1st Year)	9 80 400
2nd FIVE YEAR PLAN (2nd Year)	29 60 400
Grand Total	39 40 800

APPENDIX BB

Statement showing the list of works proposed to be taken up under the underground drainage scheme in the Corporation Area during the 2nd Five Year Plan (1st Year) 1956 1958

Sl No	Particulars	Quantity	Rate per rft	Cost
			Rs	Rs
1	NORTH RANGE			
	Nagappa Block area Srirampuram	6 000 rft	6	36,000
	SOUTH RANGE			
1	Underground drainage for Rajaji Nagar of Doddapalya	8 000	6	48 000
2	Azad Nagar Area	10,000 ,	6	60 000
3	Behind Vaccine Institute in 25th Division	—	—	10 000
4	Sunkenahally Village	—	—	10 000
5	Yediyur Village	—	—	30 000

APPENDIX 'BB —(Contd)

Sl No	Particulars	Quantity	Rate per rft	Cost
			Rs	Rs
	CIVIL AREA			
	SUB-MAIN SEWERS			
1	Mahatma Gandhi Road to Brigade Road junction	6 000		
2	Ulsoor Joughpoliyam	15 000 ,		
3	Guntroop Cambridge Road up to Richmond Road	20 000		
4	Nilsandra	18 000 ,		
5	Richmond Town Pudupara chery & Langford Town	18 000		
6	Nehrupuram	12 000 ,		
	Total	89 000 ,	7	6 23 000
	Add for Establishment Charges Tools & Plants and contingencies (12½ / + 2½ % + 5 / = 20 /)			1 63 400
	Total			9 80 400

APPENDIX BB

Statement showing the list of works proposed to be taken up under the underground drainage scheme in the corporation area during 2nd five year Plan (2nd year) 1956—58

Sl No	Particulars	Quantity	Rate per rft	Cost
			Rs	Rs
	NORTH RANGE			
1	Goripalya area including Police lines	15 000 rft	6	90 000
2	Kempapur Agrahar area Magadhi Road (including outfall sewer up to Electric Factory)	20 000 ,,	6	1 20 000
	CENTRAL RANGE			
1	Underground drainage for pension Mohalla area along Mysore Road Cheluvadi palya area (as per estimate)			2 00 000
2	Out fall sewer—this area to join the Kempambudhi Tank outfall	6 000	10	60 000
3	Nanjamba Agrahara	5 000	6	30 000
4	P Ramaswamy layout area Mavalli			20 000
5	Drainage arrangement to Thyagaraja Nagar			60 000
	CIVIL AREA			
1	Duplicate sewer line from Sunkal Farm to Langford Road junction	4 000	45	1 80 000

APPENDIX BB —(Contd)

Sl No	Particulars	Quantity	Rate per rft	Cost
2	Duplicate sewer line from Ca valry Road junction up to Queens Rd 18 sewer main	6 000 rft	Rs	Rs
3	Do from Koramangala Tank to the junction of Richmond Road 18 main	8 000 ,,		
		14 000 ,	30	4,20 000
4	Converting existing masonary sewer from Kingston Road to Chelaghatta Tank into ovoid sewer	13 500 ,	58	7 83,000
	SUB MAIN SEWERS			
I	Beidarahalli & B Crosses	6 000 ,		
2	Jeevanahalli Village	8,000 ,,		
3	Domlur Village	5,000 ,		
4	Binnamangala Village	5 000 ,		
5	Dukanahalli & Appareddy palya	15 000 ,		
6	Layout in old Isolation Hospital	3 000		
7	Vannarpet	5 000 ,		
8	Ookadpoliyam & Rudrappa garden	10,000 ,,		
9	Sydney Road Lavelle Road cross St Marks Road	15 000 ,		
		72 000 ,	7	5 04 000
	Add for establishment char ges tools & plants and contingeneies (12½ / + 2½% +5% = 20/)			4 93 400
	Total			29 60 400

APPENDIX 'DD

Abstract Showing the Particulars of the various Slum Areas within the limits of the Corporation Area of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation

1	Works to be taken up in the 2nd Five year plan (1st year)			Total Amount Rs	17,50,500
2	Works to be taken up in the 2nd Five year plan (2nd year)			Total Amount Rs	13,19 400
3	Do	do	(3rd year)	Total Amount Rs	16 95 600
4	Do	do	(4th year)	Total Amount Rs	15 50,700
5	Do	do	(5th year)	Total Amount Rs	25 80 360
				Grand Total Rs	88 96 560

APPENDIX 'DD

Statement showing the particulars of the various areas within the limits of the Corporation of the City of Bangalore excluding Industrial labour for which separate schemes is taken up by the Housing Corporation

Sl No	Div No	Name of the Slum Area	Area now occupied	No of Families in the slum	No of families that can be accommodated into the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing and proposed place with acquisition
1	2	3	4	5	6	7	8
		Works to be taken up in the 2nd Five Year Plan (1st Year)					
1	5	Slums behind Sweepers Quarters Rishaldar Street	1 acre	150	50	Acquiring of 2 acres of agricultural land of Hanumanthadur Village	Rs 90 000
2	8	Gopalapura	10¾ ,	660	500	3 acres do to to south of Kempapura Agrahar to be acquired	3,96 000
3	12	Kenchappa Garden	4	173	173		1 03 800

4	25	Muniswamy Gardens	2 acres	130	100	1 Acre in Magadi Road	78,000
5	,	Gurappa Garden behind Bharath Talkies	2	400		8 Acre do	2,40,000
6	,,	Narayanaswamy Garden Opposite to Shivaji Talkies	1 ,	122		2 5 Acre do	73 200
7	,,	Khader Sheriff Cardens	4 ,,	240	200	1 Acre do	1,44,000
8	,	Municipal Stores	1 5 ,	70	70		42 000
		Total		1,945			11,67 000
		Providing fiushout latrine, washing plat form and a tap at Rs 150 per lamily		1945x150=			2 91 750
		Add for Establishment charges Tools & Plants, and contingencies 12½+ 2½/+5% = 20%)					14 58 750 2 91 750
						Total Rs	17 50 500

APPENDIX DD

Statement showing the particulars of the various areas within the limits of the Corporation of the city of Bangalore including industrial labour for which separate schemes is taken up by the housing corporation

Sl No	Div No	Name of the Slum Area	Area now occupied	No of Families in the slum	No of families that can be accommodated into the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing and proposed place with acquisition
1	2	3	4	5	6	7	8
		Works to be taken in the 2nd Five year Plan (2nd year)					
1	4	Ghouse Huts Oakalipuram 5th Main Road Sriram puram	1½ acres	94 -	75	1 acre of open private land in the western side of present Ghouse huts	56,400
2	„	Maharaja Mills Labour Huts 6th cross Srirampuram	1½ ,	51	51		30 600
3	,	Nagendra Colony opposite to Geeta Engineering works	1	24	24	The present area of 1 acre itself to be acquired	14 400
4	5	Maharaja Mills Huts Mohamedan Block	1½ „	93	75	Acquiring ½ acre of land of Hanuman thapur village	55 800
5		Huts behind Maharaja Mills Srirampuram	1/2 ,	49	24	Do	29 400

6		Hanumanthapuram	6 acres	300	300		1 80 000
7	6	Huts in Anjeneya Block Seshadripuram	1/2	125	25	2 acres of agricultural land in Hanumanthapur village to be acquired	75 000
8	15	Bakshi Gardens	2¼	360	117	3½ acres of land at Magadi Road	1 89 600
9	25	Smithy Block & Slaughter House	0 50	102		2 acres in Magadi Road	61 200
10	31	T S Block to the West of Venkatarangapuram	3 ,	80	80	Do	48 000
11	,	Huts in Jabbar Block to the west of Palace Gutthalli	3	40	40		24 000
12	32	A K and A D Block Muni reddypalyam	2½	140		3½ acres of dry land Northeast of Muni reddypalyam	84 000
13	46	Huts by the side of the Millers Tank	¾	52		Revenue land Nandydrug 3 acres	31 200
		Total		1,466		Total	8 79 600
		Providing flushout latries washing platform and a tap at Rs 150/ per family	1466 x 150=				2 19 900
						---	10 99 500
		Add for Establishment charges Tools & Plants and contigencies (12½%+2½/+5/=20/)			---		2 19 900
						Total	13 19 400

APPENDIX DD

Statement Showing the particulars of the various Slum Areas within the limits of the Corporation of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation

Sl No	Div No	Name of the Slum Area	Area occupied	No of families in the slum	No of families that can be accommodated in the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing & proposed place with acquisition
1	2	3	4	5	6	7	8
		Works to be taken up in the 2nd Five Year Plan Period (3rd year)					Rs
1	3	Kurubara Gudasalu	1 acre	31	31	1 Acre of land of Kethamaranahally village already acquired	18 600
2	4	Arjuna Colony 7th Main Road	3 acres	350	150	4 acres of land of Old Hanumanthapur burial ground 5th Main Road Srirampuram	2 10 000
3	8	Kempapura Agrahara	20¾ ,,	742			4,45 200
4	12	Behind Himalaya Talkies Majestic Circle	1½	150	75	Acquisition of 1½ acres of land on deviation road on Magadi Road	90 000

5	15	Cheluvadipalya New Lay=out and old portion	4 acres	160	160		96 000
6		Ittige Anjanappa garden	5¾	138	138		82 800
7	21	Sambupalya Hats near Vokkaligara Sangha	0 45	110		2 5 acres of land in Magadi Road	66 000
8	31	Huts in Pipe line Road east of Palace Guttahalli	1¾	98	88	¼ acre of land to the south west of Muneswara Block	55 800
9	49	Richmond Town Division		52			31 200
10	50	Austin Town Division		53			31 800
		Total		1 884		Total	11,30 400
		Providing flushout latrine washing plat form and a tap at Rs 150/ per family		1884 x 150			2 82,600
							14 13 000
		Add for Establishment charges Tools & Plants and contingencies (12/ + 2½/ + 5% = 20%)					2,82 600
						Total	16 95 600

APPENDIX 'DD

Statement showing the particulars of the various Slum Areas within the limits of the Corporation of the City of Bangalore excluding Industrial Labour for which separate Scheme is taken up by the Housing Corporation

Sl No	Div No	Name of the Slum Area	Areanow occupied	No of Families in the slum	No of families that can be accommodated into the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of the existing and proposed place with acquisition
1	2	3	4	5	6	7	8
		(Works to be taken in the 2nd Five Year Plan Period (4th Year)					
1	5	Christian Colony 5th main Road Srirampuram	1 Acre	83	50	Acquiring 2/3 acre of of land of Hanumanthapur Village	49 800
2	8	Goripalya	4 Acres	350	200	3 acres of agricultural land in the north of Binnypet to be acquired	2,10 000
3	,	Briand Colony	1½	100	75	½ acre —do—	60 000
4		Mohamadan Bolck	2	100	100		60 000
5		New Pension lines	1	50	50		30 000
6	12	Thippa Setty Mutt compound Gandhi Nagar	¼	22	15	Acquisition of ¼ acre of land behind Eakambar Shaujee Dharmasala	13 200

7	15	Veerabasavaya s land	1½ acres	43	43		25 800
8	16	N S Venkatarama s property	2	300	100	Garden land in the same area to be acquired	1 80 000
9	17	Shree Samaja Chamrajpet	0 25	60		Magadi Road	36 000
10	19	Shedri Sanyasi Kunti	0 80	51		Area required 1 acre	30 600
11	23	Christina Colony	1 50	80	80		48 000
12		Vijaya Colony South and east	0 8	59		1 2 acres along Magadi Road	35 400
13	24	Badamakhan	1	75	50	½ acre —do—	45 000
14	31	T S Block Huts near Muniswara Temple	8	350	350		2 10 000
			Total	1 723		Total	10 33 8 00
		Providing flushout latrine washing plat from and a tap at Rs 150 per family	1723x150 =				2 58 450
							12 92 250
		Add for Establishment charges Tools & Plants & contingencies (12½ /+ 2½ /+ 5% = 20%)					2 58 450
						Total	15 50 700

APPENDIX D D

Statement showing the particulars of the various slum areas within the limits of the Corporation of the City of Bangalore excluding Industrial labour for which separate scheme is taken up by the Housing corporation

Sl No	Div No	Name of slum	Areanow occupied	No of families in the slum	No of families that can be accommodated in the same place	Alternate place for the remaining families with area required	Cost of amenities inclusive of existing and proposed place with acquisition
1	2	3	4	5	6	7	8
		Works to be taken up in the IInd Five Year Plan (5th year)					
1	24	Gutte Anjeneya Temple	0 10acres	50		Magadi Road	30 000
2	25	Huts behind Vyamasala	1	91		2 acres along Magadi Road	54 600
3	45	Huts near Sultanji Gunta Road	½	36	36	Revenue land Nandydrug 1 4 Acres	21 600
4	35	Huts near Doddigunta and Jeevanhalli	7 5	280		13 8 acres of land North of Jeevan halli	1,68 600
5	8	Sweeper huts to the North of Goripalya Main Road	2	392	100	6 acres of agricultural land to the North of Binny pet to be acquired	2 35 300

6	32	Munivenkatappa Garden	8 a res	220		10 acres of land east of Dhoby ghat	1 32 000
7	36	Murphy Town area		250			1 50 000
8	18	Kalasipalyam area new tank bund Road	2 acres	370	100	Very area further 4 acres	2 22,000
9	23	Sakamma Garden	3	167	167		1 00 200
10	25	D Souza Garden	1	170		4 acres in Magadi Road	1 02 200
11	8	Sweeper huts to the South of Goripalya Main Road	2	410	100	6 acres of agricultural land to the west of Binneypet to be acquired	2 46 000
12	23	Kanakanapalya Huts	2 50	430	125	6 acres extra along Magadi Road	2 58 000
			Total	2 866		Total	17 20 400
		Providing flushout latrine washing plat form and a tap at Rs 150 per family	2866x150				4 29 900
		Add for Establishment charges Tools and Plants and contingencies ($12\frac{1}{2}$/-+$2\frac{1}{2}$%+5/-=20%)					21 50 300
							4 30 060
							25 80 360

Printed at Orient Power Press 50 Lalbagh Road
Bangalore 2

Mysore Government
xxxxxxxxxxxxxx/
Municipal Branch,
24 July 54

L. 86.57

The

L S.G. & Planning Departments

To

The Mayor,
Corporation of the City of Bangalore,
Bangalore

Sir,

Subject - Memorandum submitted to Planning Commission
Under-ground Drainage, Water Supply and
Slum Clearance Works

I am directed to invite reference to your letter No A1-21/54-55 dated the 24th June 1954 on the above subject and to request you kindly to arrange to send detailed estimates and plans (in duplicate) for under-ground drainage scheme immediately The other two questions are being considered separately

2 A copy of letter No 1137/54-5 dated 21st June 1954 received from the Chairman, City Improvement Trust Board, Bangalore, who was requested to send detailed estimates, is enclosed herewith for information.

Yours faithfully,

(V Hanumanthappa)
Asst Secretary to Government,
L S G & Planning Departments.

"With reference to your letter No L 2338 dated 8th June 1954 regarding the above, I write to state that the drainage maps called for from the Corporation are not yet received and the Commissioner is being reminded in the matter

I wish however to point out in this connection that the preparation of a Comprehensive Scheme in the unsewered areas of the Corporation involves detailed and intensive surveys in those area and considering the magnitude and importance of the work, the appointment of a special staff for a specific period is necessary On receipt of the maps from the Corporation Commissioner, the details will be worked out and submitted to Government for sanction "

- Copy -

LNS 2.5/7.

(10)

Proceedings of the Council of the
Read -

Letter no 1270 HHO 54

dated 7/8-6-54 from the Planning Commission C&SD

Calling for the detailed Plans
and Estimates in respect of
Underground Drainage, Water supply
and Slum clearance works
in Bangalore city for which
financial aid has been sought
by the Mayor CCB in his
memorandum ~~no A1 24/54-55~~
~~dated 9-6-54~~

Letter no L 3657 d 7-7-54

read

from the Secretary H&S + Planning Deptt
Calling for the detailed estimates and
Plans for the above works from the
Commissioner CCB

Letter no A1 /54 55 dated
22-9-54 from the Commissioner
CCB forwarding for Sanction
the Resolution dated 20-9-54
of the Corporation approving the
Constitution of a Committee
to examine the General principle
in connection with the obtaining
of financial aid from the State
and other Governments as loan
and Subsidy for the following works.,

1) Water Supply
2) Under Ground Drainage & Sewage Disposal
3) Slum Improvement

ORDER NO LS/337 /CR 96-54-2.

L 10-54
S

~~Accordingly~~

Government are pleased
to constitute a Committee
consisting of the following members —

1) Sri N S Hiranmaya I & B Commissioner ~~reg in charge~~ & Chairman (Rajeev & H Copy)
2) " R Kasturan, Chairman CWDB Bangalore
3) " K Honnappa Commissioner CDP
~~4)~~

The Commissioner CDP will be the Nodal Convener of the Committee

~~The terms of reference to the Committee will be as follows —~~

~~The Committee besides~~
Considering ~~draft memorandum~~ and the Commissioner's note in respect ~~of their views policy and~~ the works, is ~~requested to furnish~~ their views with respect to the administration ~~of uniform distribution~~ of Water Supply both in rural Areas and the city area and

(12)

The Committee will
(a memorandum prepared by the Corporation and
Consider the Commissioners'
Report in regard to the Water Supply,
Sewerage Drainage & Sewage
Disposal, and Storm ~~Cleansing~~ Improvements
~~in connection with the obtaining~~
~~of financial aid~~

It may also Consider
the administration of Uniform
distribution of Water Supply
both in Civil Station and ~~out~~
City area and the mode of
Repayment of the Loans to be
advanced to the Schemes
in question

The Committee may ~~also~~
Co-opt Additional Councillors
& Councillors and Aldermen and
Such ~~Members~~ of the ~~Committee~~ deem
it necessary

The Committee is requested
to furnish their Report within Ten Days

The ~~Report~~ Commissioners C&B
is requested to forward the ~~Plans and~~ Estimates

in duplicate together with the
and Report of the Committee, and Receipt rendered
Certificate
in duplicate ~~Separately~~
on each subject
Separately

Clerk

to Secretary

[illegible]

<

To the Council ~~with~~ to Mayor
a Commissioners for ASC
a Chairmen C. of B.
a Controller P&D
a Auditor C.E.B

XIV
[illegible]

8 Copy

"D R A F T"

(14)

PROCEEDINGS OF THE GOVERNMENT OF MYSORE

R e a d -

Letter No 1270/H II O 54 dated the 7/8th June 1954 from the Planning Commission, Government of India, calling for the detailed plans and estimates in respect of Under-ground Drainage, Water-Supply and Slum Clearance Works in Bangalore City for which financial aid has been sought by the Mayor, Corporation of the City of Bangalore in his memorandum

2 Letter No L 3657 dated the 7th July 1954 from the Secretary to the Government, L S G & Planning Departments, calling for the detailed estimates and plans for the above works from the Commissioner, Corporation of the City of Bangalore

3 Letter No A 1/54-55 dated the 22nd Sep 1954 from the Commissioner, Corporation of the City of Bangalore forwarding for sanction the resolution dated 20th September 1954 of the Corporation approving the constitution of a Committee to examine the general principles in connection with the obtaining of financial aid from the State and Union Governments as loan and subsidy for the following works -

1) Water Supply
2) Under-Ground Drainage & Sewage Disposal
3) Slum Improvement

ORDER No L 8133-7/CW 96-54-2

DATED, BANGALORE, THE 4/5-10- 1954

Government are pleased to constitute a Committee consisting of the ~~following~~ marginally noted members -

1 Sri N S Hirannayya, I A S , Commissioner for L S G in Mysore, & Chairman of the Labour Housing Corporation

2 " R Madhavan, B E , City Improvement Trust Board, Bangalore,

3 " K Henjerappa, B A ,B I , Commissioner, Corporation of the City of Bangalore

The Commissioner, Corporation of the City of Bangalore, will be the Convenor of the Committee

2 ~~The Committee will~~ to consider the memorandum proposed by the Corporation and also the Commissioner's note with regard to Technical details & implementing ~~reference to~~ the Water Supply, Under-Ground Drainage and Sewage Disposal and Slum Improvements schemes

3 The Committee may also consider the administration of uniform distribution of water supply both in Civil Station and City Area and the mode of repayment of the loan to be advanced to the schemes in question

4 The Committee may consult Divisional Councillor or Councillors and Aldermen and others, if they deem it necessary

5 The Committee is requested to furnish their report within ten days along with the detailed estimates & plans

for Secretary to Government,
L S G & Planning Deptts

To

The Commissioner, C C B (through the Mayor)
" Commissioner for L S G in Mysore,
" Chairman, C I T B , Bangalore,
" Controller, S A D , Bangalore,
" Auditor, C C B

Dft/LNS 4/10

C/y to Trust Board Secretary

5/1/62

(15)

Letter No 4773/[illegible].C.54 dated the 7/8th June 195[illegible] from the Chief Commissioner, Government of India, calling for the detailed plans and estimates in respect of Under-ground Drainage, water supply and slum clearance schemes in Bangalore City for which financial aid has been sought by the Mysore, Corporation of the City of Bangalore in his memorandum

2 Letter No.L.657 dated the 7th July 1954 from the Secretary to the Government, Local Self-Government and Planning Department, calling for the detailed estimates and plans for the above works from the Commissioner, Corporation of the City of Bangalore.

3 Letter No.A.1/54-55 dated the 22nd September 1954 from the Commissioner, Corporation of the City of Bangalore forwarding for sanction the resolution dated 20th September 1954 of the Corporation approving the constitution of a Committee to examine the general principles in connection with the obtaining of financial aid from the State and Union Governments for and subsidy for the following works:-

i) Water supply,
ii) Under-ground Drainage and Sewage disposal,
iii) Slum Improvement.

- - - -

GO.No.L. 617 -7/L.S. 96-54-2

Dated, Bangalore, the 20th October 1954

Government are pleased to constitute a Committee consisting of the personally noted members to consider the memorandum proposed by the Corporation and also the Commissioner's note with regard to technical details of implementing the Water supply, Under- ground Drainage and Sewage Disposal and Slum Improvements.

1. Sri [illegible], Director of Municipal Administration, Commissioner for Local Self-Government in Mysore, Bangalore.
2. Sri [illegible] Madhavan, B.[illegible], Chairman, City Improvement Trust Board, Bangalore.
3. Sri [illegible] Benjeri[illegible], B.[illegible], [illegible].L., Commissioner, Corporation of the City of Bangalore, Bangalore.

The Commissioner, Corporation of the City of Bangalore, will be the convenor of the Committee.

- 2 -

2. The Committee may also consider the administration of municipal institutions of Northern Rhodesia generally with a view to the improvement of the local government machinery.

3. The Committee may confer with local Councillors or Councillors and Aldermen and others, if they deem it necessary.

4. The Committee is requested to furnish their report within ten days or sooner with the detailed estimates and plans.

(V. Emmanuel Jaffe)
for Secretary to Government,
L. G. & Planning, Reports Mtr.

To

The Commissioner, Corporation of the City of Northern Rhodesia through the Mayor
The Commissioner for Local Self-Government in Northern Rhodesia,
The Chairman, City Improvement Trust Board, Northern Rhodesia,
The Controller, Internal Revenue Department, Northern Rhodesia,
The Editor, Corporation of the City of Northern Rhodesia

Nrr-10/ 10

Xefs 2

Corresp 17